## Before Intel VT FlexMigration and VMware\* Enhanced VMotion Compatibility (EVC)

Processor	Group A	Group B	Group C	Grou	ıp D	The same CPU features must be available to an application				olication before		
Dual Core	50xx (Dempsey)	51xx (Woodcrest)	52xx (Wolfdale)	Ш		and after Live migration. Due to CPU enhancements it was only possible to VMotion between CPU's within the same group.						
	70xx (Paxville)	72xx (Tigerton)		Ш								
	71xx (Tulsa)			Ш		Expanded CPU resource pool with						
Quad Core		53xx (Clovertown)	54xx (Harpertown)	Neha	lem	<u>Inte</u>	ntel® VT FlexMigration assist and VMware's EVC					
		73xx (Tigerton)						VMotion works between Group B, C ,D				
					Processor		Group A	Group B	Group C	Group D		
Six Core			74xx (Dunnington)		Dual Core		50xx (Dempsey)	51xx (Woodcrest)	52xx (Wolfdale)			
							70xx (Paxville)	72xx (Tigerton)				
Intel and VMware addressing the problem							71xx					
FlexMigration is a new capability in Intel's 45nm CPU's							(Tulsa)					
(Harnertown Wolfdale Dunnington) and all future CPI I's												

(Harpertown, Wolfdale, Dunnington) and all future CPU's that makes VMotion between different generations of CPU's possible.

The feature is enabled through VMware's Virtual Center 2.5 Update 2 and ESX 3.5 Update 2

FlexMigration allows incompatible features between generations of CPU's to be masked.





VMotion Compatibility Matrix for Dell PowerEdge (PE) Servers		Legacy	PowerEdge 8G		PowerEdge 9G (Intel® Xeon® 5000 series)	PowerEdge 9G (Intel * Xeon * 5100/5300 Series)	PowerEdge 9G III (Intel * Xeon * 5400/5200 Series)	PowerEdge 10G (Intel * Xeon * 7200/7300 Series)	PowerEdge 10G (Intel * Xeon * 7400 Series)	PowerEdge 10G (Intel * Xeon * 5400/5200 Series)
	PE 6650	PE 1850/1855/ 2850/6850	PE 6850 (Intel * Xeon * 7000/7100 Series)	PE 1950/1955/2900/ 2950	PE 950/1955/2900/ 2950	PE 1950/2900/2950	PE R900	PE R900	PE M600	
Legacy	PE 6650	Yes	No	No	No	No	No	No	No	No
	PE1850/1855/ 2850/6850	No	Yes	Yes	Yes	No	No	No	No	No
PowerEdge 8G	PE 6850 (Intel ° Xeon ° 7000/7100 Series)	No	Yes	Yes	Yes	No	No	No	No	No
PowerEdge 9G (Intel * Xeon * 5000 series)	PE1950/1955/ 2900/2950	No	Yes	Yes	Yes	No	No	No	No	No
PowerEdge 9G (Intel * Xeon * 5100/5300 series)	PE1950/1955/ 2900/2950	No	No	No	No	Yes	Yes	Yes	Yes	Yes
PowerEdge 9G III (Intel * Xeon * 5400/5200 Series	PE1950/2900/ 2950	No	No	No	No	Yes	Yes	Yes	Yes	Yes
PowerEdge 10G (Intel * Xeon * 7200/7300 Series)	PE R900	No	No	No	No	Yes	Yes	Yes	Yes	Yes
PowerEdge 10G (Intel * Xeon * 7400 Series)	PE R900	No	No	No	No	Yes	Yes	Yes	Yes	Yes
PowerEdge 10G (Intel * Xeon * 5400/5200 Series)	PE M600	No	No	No	No	Yes	Yes	Yes	Yes	Yes

Support for only 32-bit virtual machines

Support for 32-bit and 64-bit Virtual Machines; supports Virtualization Technology (VT)

VMotion works

VMotion fails with CPU incompatibility error message

VMotion works with Intel VT FlexMigration and VMWare Enhanced VMotion Compatibility. ESX version must be ESX 3.5 update 2

## Important Informatio

are for informational purpose to help custome's understand Vindono compationity with respect to be information and processor specific information, refer to the RB articles 1991, 1992, 1999 at http://www.wimware.com/support termine! if processor sport exists in a separity (Miware EX Freeders, peace refer to the appropriate Systems Compatibility Guide at http://www.wimware.com/support/pubs/vic\_pubs.html processor specification/model number Iseries includes all supported processor variants of the family.

Refer to ESX Server 3.x System Compatibility Guide at http://wmware.com/pdf/vi3\_systems\_guide.pdf for latest information on ESX server support matrix for Dell PowerEdge servers. Long Hordos

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